

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
**WO 2004/113247 A1**

(51) International Patent Classification<sup>7</sup>: **C03C 17/38**

(21) International Application Number:  
PCT/EP2004/051156

(22) International Filing Date: 17 June 2004 (17.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PCT/EP03/50234 18 June 2003 (18.06.2003) EP

(71) Applicant (for all designated States except US):  
GLAVERBEL [BE/BE]; Chaussée de La Hulpe, 166,  
B-1170 Bruxelles (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **POELS,**  
Jean-Pierre [BE/BE]; Glaverbel - Centre R & D, Rue  
de l'Aurore, 2, B-6040 Jumet (BE). **PILLOY,** Georges  
[BE/BE]; Glaverbel - Centre R & D, Rue de l'Aurore, 2,  
B-6040 Jumet (BE).

(74) Agents: **FARMER,** Guy et al.; Glaverbel - Centre R &  
D, Department Intellectual Property, Rue de l'Aurore, 2,  
B-6040 Jumet (BE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— of inventorship (Rule 4.17(iv)) for US only

**Published:**

— with international search report  
— before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

WO 2004/113247 A1

(54) Title: MIRROR

(57) Abstract: Copperless mirror having an epoxy paint layer covering a silver layer have at least one of the following properties:  
a) a scratch resistance determined by the Clemens test showing scratches of less than 10 µm when applying a weight of 1500 g; b) a  
hardness determined by the Persoz pendulum of at least 250 s; c) a commercially acceptable resistance to at least one glue selected  
from the group consisting of oxime, alkoxy, MS polymer and rubber. The mirrors have good resistance to handling.